

IN THE CLAIMS:

1. Method for controlling at least one process parameter while processing a molten glass, comprising:
  - measuring an electrical resistance of the molten glass to obtain an electrical resistance measurement; and
  - adjusting at least one process parameter based on the electrical resistance measurement.
2. The method of claim 1, wherein the step of adjusting the at least one process parameter is effective to control a characteristic of the molten glass.
3. The method of claim 2, wherein the step of adjusting the at least one process parameter is effective to control a viscosity of the molten glass.
4. The method of claim 1, wherein the electrical resistance is measured with at least one pair of electrodes.
5. The method of claim 1, wherein the at least one process parameter is controlled during a process for forming the molten glass, wherein the process comprises melting a raw material in a furnace to form the molten glass.
6. The method of claim 5, wherein after formation of the molten glass, the molten glass is conveyed to an apparatus for forming a glass fiber from the molten glass.
7. The method of claim 1, wherein the measuring and adjusting steps are conducted prior to conveying the molten glass to an apparatus for forming a glass fiber from the molten glass.
8. The method of claim 1, wherein the step of adjusting the at least one process parameter comprises increasing or decreasing a temperature setpoint in the processing of the molten glass.

9. The method of claim 1, wherein the molten glass is present in an enclosure, and the step of adjusting the at least one process parameter comprises increasing or decreasing an amount of heat that the enclosure provides to the molten glass.

10. The method of claim 5, wherein the step of adjusting the at least one process parameter comprises altering a composition of the raw material used to form the molten glass.

11. The method of claim 1, wherein the step of adjusting the at least one process parameter is effective to maintain the electrical resistance of the molten glass in a predetermined range or at a predetermined level.

12. The method of claim 1, wherein a plurality of process parameters are adjusted based on the electrical resistance measurement.